Title (en)
METHOD AND DEVICE FOR DETERMINING MOTION PARAMETERS

Title (de)
VERFAHREN UND VORRICHTUNG ZUR ERMITTLUNG VON BEWEGUNGSPARAMETERN BEWEGTER OBJEKTE

Title (fr)
PROCÉDÉ ET DISPOSITIF DE DÉTERMINATION DE PARAMÈTRES DE DÉPLACEMENT D'OBJETS EN MOUVEMENT

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Application
EP 11788097 A 20111111

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Abstract (en)
[origin: WO2012069324A1] The invention relates to a method for determining motion parameters of moving objects, in particular for rail vehicles, and to a corresponding device. In order to be able to dispense with expensive gyroscopes, according to the invention the acceleration of the object along at least one of the three spatial axes (X, Y, Z) is measured by means of MEMS (micro-electromechanical systems) acceleration sensors and/or the rotational speed of the object about at least one of the three spatial axes (X, Y, Z) is measured by means of MEMS gyro sensors. For each digital or digitized rotational speed measured value (GyroY') in relation to a spatial axis (X) rotated through 90°, trailing and/or leading mean values (MwGXn and/or MwGXv) based on the associated standard deviation (StabwGXn and/or StabGXv) compared with a threshold value (SgX) are used for offset correction of the rotational speed measured value (GyroY').

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